

Fig. 13

- S21 convert input two text sentences $S1$ and $S2$ into R trees Ta and Tb , respectively
- S22 numbers from 1 to positive integer n to roots of all subtrees of the R trees Ta and Tb in depth first order from a root of the R tree
- S23 $x = n1$ where $n1$ denotes number of vertexes of the tree Ta
- S24 $y = n2$ where $n2$ denotes number of vertexes of the tree Tb
- S25 calculate a distance $D(Fa(x), Fb(y))$ between a forest $Fa(x)$ and a forest $Fb(y)$, using formula 6
- S26 calculate a distance $D(Ta(x), Tb(y))$ between the subtree $Ta(x)$ and the subtree $Tb(y)$, using formula 5
- S27 Is y a root of Tb ?
- S29 Is x a root of Ta ?
- S31 calculate a distance between the text sentences $S1$ and $S2$, using formulae 7 or 8